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SEQUENCE LISTING

<110> Epimmune, Inc.
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Alessandro Sette
John Sidney
Scott Southwood
Robert Chesnut
Esteban Celis
Elissa Keogh
Epimmune Inc.

<120> Inducing Cellular Immune Responses to
Carcinoembryonic Antigen Using Pepetide and Nucleic Acid
Compositions

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<140> US 09/458,302

<141> 1999-12-10

<150> US 08/027,146

<151> 1993-03-05

<150> US 08/073,205

<151> 1993-06-04

<150> US 08/159,184

<151> 1993-11-29

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<151> 1994-03-04

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Asn Val Thr Arg Asn Asp Ala Arg
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<400> 1796
 Ser Tyr Arg Ser Gly Glu Asn Leu
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<210> 1797
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<400> 1797
 Ser Tyr Arg Ser Gly Glu Asn Leu Asn Leu
 1 5 10

<210> 1798
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<400> 1798
 Ser Tyr Thr Tyr Tyr Arg Pro Gly Val Asn Leu
 1 5 10

<210> 1799
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<400> 1799
 Thr Phe Gln Gln Ser Thr Gln Glu Leu

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<210> 1800
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<400> 1800
 Thr Phe Gln Gln Ser Thr Gln Glu Leu Phe
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<210> 1801
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<400> 1801
 Thr Phe Gln Gln Ser Thr Gln Glu Leu Phe Ile
 1 5 10

<210> 1802
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<400> 1802
 Thr Phe Trp Asn Pro Pro Thr Thr Ala Lys Leu
 1 5 10

<210> 1803
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<400> 1803
 Thr Tyr Ala Cys Phe Val Ser Asn Leu
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<210> 1804
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<400> 1804

Thr Tyr Leu Trp Trp Val Asn Gly Gln Ser Leu
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<210> 1805

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<400> 1805

Thr Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu
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<210> 1806

<211> 9

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Thr Tyr Tyr Arg Pro Gly Val Asn Leu
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<210> 1807

<211> 11

<212> PRT

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<400> 1807

Thr Tyr Tyr Arg Pro Gly Val Asn Leu Ser Leu
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<210> 1808

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<400> 1808

Val Tyr Ala Glu Pro Pro Lys Pro Phe
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<210> 1809

<211> 10

<212> PRT
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<400> 1809
 Val Tyr Ala Glu Pro Pro Lys Pro Phe Ile
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<210> 1810
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<400> 1810
 Val Tyr Pro Glu Leu Pro Lys Pro Ser Ile
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<400> 1811
 Trp Trp Val Asn Gly Gln Ser Leu
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<400> 1812
 Trp Trp Val Asn Asn Gln Ser Leu
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<400> 1813
 Tyr Tyr Arg Pro Gly Val Asn Leu
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<210> 1814
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<400> 1814
 Tyr Tyr Arg Pro Gly Val Asn Leu Ser Leu
 1 5 10

<210> 1815
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<400> 1815
 Arg Trp Cys Ile Pro Trp Gln Arg Leu Leu Leu Thr Ala Ser Leu
 1 5 10 15

<210> 1816
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<400> 1816
 Cys Ile Pro Trp Gln Arg Leu Leu Leu Thr Ala Ser Leu Leu Thr
 1 5 10 15

<210> 1817
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<400> 1817
 Trp Gln Arg Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn
 1 5 10 15

<210> 1818
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<400> 1818

Gln Arg Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Pro
 1 5 10 15

<210> 1819

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 1819

Arg Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Pro Pro
 1 5 10 15

<210> 1820

<211> 15

<212> PRT

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<400> 1820

Ala Ser Leu Leu Thr Phe Trp Asn Pro Pro Thr Thr Ala Lys Leu
 1 5 10 15

<210> 1821

<211> 15

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<400> 1821

Leu Leu Thr Phe Trp Asn Pro Pro Thr Thr Ala Lys Leu Thr Ile
 1 5 10 15

<210> 1822

<211> 15

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<223> Artificial Peptide

<400> 1822

Leu Thr Phe Trp Asn Pro Pro Thr Thr Ala Lys Leu Thr Ile Glu
 1 5 10 15

<210> 1823

<211> 15

<212> PRT

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<400> 1823

Thr	Ala	Lys	Leu	Thr	Ile	Glu	Ser	Thr	Pro	Phe	Asn	Val	Ala	Glu
1				5					10					15

<210> 1824

<211> 15

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<400> 1824

Glu	Val	Leu	Leu	Val	His	Asn	Leu	Pro	Gln	His	Leu	Phe	Gly
1				5				10					15

<210> 1825

<211> 15

<212> PRT

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<223> Artificial Peptide

<400> 1825

Val	Leu	Leu	Leu	Val	His	Asn	Leu	Pro	Gln	His	Leu	Phe	Gly	Tyr
1				5				10						15

<210> 1826

<211> 15

<212> PRT

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<400> 1826

Tyr	Ser	Trp	Tyr	Lys	Gly	Glu	Arg	Val	Asp	Gly	Asn	Arg	Gln	Ile
1				5					10					15

<210> 1827

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 1827

Asn	Arg	Gln	Ile	Ile	Gly	Tyr	Val	Ile	Gly	Thr	Gln	Gln	Ala	Thr
1				5					10					15

<210> 1828
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<220>
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<400> 1828
 Gly Tyr Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr
 1 5 10 15

<210> 1829
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 <212> PRT
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<220>
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<400> 1829
 Gly Pro Ala Tyr Ser Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser
 1 5 10 15

<210> 1830
 <211> 15
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<220>
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<400> 1830
 Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn
 1 5 10 15

<210> 1831
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 <212> PRT
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<220>
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<400> 1831
 Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile
 1 5 10 15

<210> 1832
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 <212> PRT
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<220>
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<400> 1832

Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile
 1 5 10 15

<210> 1833

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1833

Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln Asn Asp Thr Gly
 1 5 10 15

<210> 1834

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1834

Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln Asn Asp Thr Gly Phe
 1 5 10 15

<210> 1835

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1835

Ile Gln Asn Ile Ile Gln Asn Asp Thr Gly Phe Tyr Thr Leu His
 1 5 10 15

<210> 1836

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1836

Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val
 1 5 10 15

<210> 1837

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1837

Thr	Gly	Phe	Tyr	Thr	Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val	Asn
1				5					10					15

<210> 1838

<211> 15

<212> PRT

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<223> Artificial Peptide

<400> 1838

Phe	Tyr	Thr	Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val	Asn	Glu	Glu
1				5					10					15

<210> 1839

<211> 15

<212> PRT

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<400> 1839

Thr	Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val	Asn	Glu	Glu	Ala	Thr
1				5					10					15

<210> 1840

<211> 15

<212> PRT

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<400> 1840

Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val	Asn	Glu	Glu	Ala	Thr	Gly
1				5					10					15

<210> 1841

<211> 15

<212> PRT

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<400> 1841

Lys	Ser	Asp	Leu	Val	Asn	Glu	Glu	Ala	Thr	Gly	Gln	Phe	Arg	Val
1				5					10					15

<210> 1842
 <211> 15
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<220>
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<400> 1842
 Ser Asp Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr
 1 5 10 15

<210> 1843
 <211> 15
 <212> PRT
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<220>
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<400> 1843
 Gln Phe Arg Val Tyr Pro Glu Leu Pro Lys Pro Ser Ile Ser Ser
 1 5 10 15

<210> 1844
 <211> 15
 <212> PRT
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<220>
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<400> 1844
 Tyr Pro Glu Leu Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys
 1 5 10 15

<210> 1845
 <211> 15
 <212> PRT
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<220>
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<400> 1845
 Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys Pro Val Glu Asp Lys
 1 5 10 15

<210> 1846
 <211> 15
 <212> PRT
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<220>
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<400> 1846

Ser Lys Pro Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys Glu
 1 5 10 15

<210> 1847

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1847

Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg
 1 5 10 15

<210> 1848

<211> 15

<212> PRT

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<400> 1848

Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg Leu
 1 5 10 15

<210> 1849

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1849

Asn Arg Thr Leu Thr Leu Phe Asn Val Thr Arg Asn Asp Thr Ala
 1 5 10 15

<210> 1850

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1850

Leu Phe Asn Val Thr Arg Asn Asp Thr Ala Ser Tyr Lys Cys Glu
 1 5 10 15

<210> 1851

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1851

Gln Asn Pro Val Ser Ala Arg Arg Ser Asp Ser Val Ile Leu Asn
1 5 10 15

<210> 1852

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1852

Ser Asp Ser Val Ile Leu Asn Val Leu Tyr Gly Pro Asp Ala Pro
1 5 10 15

<210> 1853

<211> 15

<212> PRT

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<220>

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<400> 1853

Leu Asn Val Leu Tyr Gly Pro Asp Ala Pro Thr Ile Ser Pro Leu
1 5 10 15

<210> 1854

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 1854

Asn Val Leu Tyr Gly Pro Asp Ala Pro Thr Ile Ser Pro Leu Asn
1 5 10 15

<210> 1855

<211> 15

<212> PRT

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<223> Artificial Peptide

<400> 1855

Ala Pro Thr Ile Ser Pro Leu Asn Thr Ser Tyr Arg Ser Gly Glu
1 5 10 15

<210> 1856

<211> 15
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<220>
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<400> 1856
 Asn Leu Asn Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln
 1 5 10 15

<210> 1857
 <211> 15
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<220>
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<400> 1857
 Gln Tyr Ser Trp Phe Val Asn Gly Thr Phe Gln Gln Ser Thr Gln
 1 5 10 15

<210> 1858
 <211> 15
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<220>
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<400> 1858
 Thr Gln Glu Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Ser Gly
 1 5 10 15

<210> 1859
 <211> 15
 <212> PRT
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<220>
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<400> 1859
 Gln Glu Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Ser Gly Ser
 1 5 10 15

<210> 1860
 <211> 15
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<220>
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<400> 1860
 Glu Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Ser Gly Ser Tyr

1 5 10 15

<210> 1861
 <211> 15
 <212> PRT
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<220>
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<400> 1861
 Ile Pro Asn Ile Thr Val Asn Asn Ser Gly Ser Tyr Thr Cys Gln
 1 5 10 15

<210> 1862
 <211> 15
 <212> PRT
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<220>
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<400> 1862
 Asn Ile Thr Val Asn Asn Ser Gly Ser Tyr Thr Cys Gln Ala His
 1 5 10 15

<210> 1863
 <211> 15
 <212> PRT
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<220>
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<400> 1863
 Asp Thr Gly Leu Asn Arg Thr Thr Val Thr Thr Ile Thr Val Tyr
 1 5 10 15

<210> 1864
 <211> 15
 <212> PRT
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<220>
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<400> 1864
 Arg Thr Thr Val Thr Thr Ile Thr Val Tyr Ala Glu Pro Pro Lys
 1 5 10 15

<210> 1865
 <211> 15
 <212> PRT
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<220>

<223> Artificial Peptide

<400> 1865

Thr Ile Thr Val Tyr Ala Glu Pro Pro Lys Pro Phe Ile Thr Ser
1 5 10 15

<210> 1866

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1866

Lys Pro Phe Ile Thr Ser Asn Asn Ser Asn Pro Val Glu Asp Glu
1 5 10 15

<210> 1867

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1867

Ser Asn Pro Val Glu Asp Glu Asp Ala Val Ala Leu Thr Cys Glu
1 5 10 15

<210> 1868

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1868

Asn Arg Thr Leu Thr Leu Leu Ser Val Thr Arg Asn Asp Val Gly
1 5 10 15

<210> 1869

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1869

Leu Leu Ser Val Thr Arg Asn Asp Val Gly Pro Tyr Glu Cys Gly
1 5 10 15

<210> 1870

<211> 15

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<220>
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<400> 1870
 Arg Asn Asp Val Gly Pro Tyr Glu Cys Gly Ile Gln Asn Glu Leu
 1 5 10 15

<210> 1871
 <211> 15
 <212> PRT
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<220>
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<400> 1871
 Glu Cys Gly Ile Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro
 1 5 10 15

<210> 1872
 <211> 15
 <212> PRT
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<220>
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<400> 1872
 Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro Val Ile Leu Asn
 1 5 10 15

<210> 1873
 <211> 15
 <212> PRT
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<220>
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<400> 1873
 Glu Leu Ser Val Asp His Ser Asp Pro Val Ile Leu Asn Val Leu
 1 5 10 15

<210> 1874
 <211> 15
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<220>
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<400> 1874
 Ser Asp Pro Val Ile Leu Asn Val Leu Tyr Gly Pro Asp Asp Pro
 1 5 10 15

<210> 1875
 <211> 15
 <212> PRT
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<220>
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<400> 1875
 Asn Val Leu Tyr Gly Pro Asp Asp Pro Thr Ile Ser Pro Ser Tyr
 1 5 10 15

<210> 1876
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 <212> PRT
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<220>
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<400> 1876
 Asp Pro Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr Arg Pro Gly Val
 1 5 10 15

<210> 1877
 <211> 15
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<220>
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<400> 1877
 Ser Pro Ser Tyr Thr Tyr Tyr Arg Pro Gly Val Asn Leu Ser Leu
 1 5 10 15

<210> 1878
 <211> 15
 <212> PRT
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<220>
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<400> 1878
 Ser Tyr Thr Tyr Arg Pro Gly Val Asn Leu Ser Leu Ser Cys
 1 5 10 15

<210> 1879
 <211> 15
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<220>
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<400> 1879

Arg Pro Gly Val Asn Leu Ser Leu Ser Cys His Ala Ala Ser Asn
 1 5 10 15

<210> 1880

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1880

Asn Leu Ser Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln
 1 5 10 15

<210> 1881

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1881

Tyr Ser Trp Leu Ile Asp Gly Asn Ile Gln Gln His Thr Gln Glu
 1 5 10 15

<210> 1882

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1882

Thr Gln Glu Leu Phe Ile Ser Asn Ile Thr Glu Lys Asn Ser Gly
 1 5 10 15

<210> 1883

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1883

Gln Glu Leu Phe Ile Ser Asn Ile Thr Glu Lys Asn Ser Gly Leu
 1 5 10 15

<210> 1884

<211> 15

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<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1884

Ile Ser Asn Ile Thr Glu Lys Asn Ser Gly Leu Tyr Thr Cys Gln
1 5 10 15

<210> 1885

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1885

Asn Ser Gly Leu Tyr Thr Cys Gln Ala Asn Asn Ser Ala Ser Gly
1 5 10 15

<210> 1886

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 1886

Arg Thr Thr Val Lys Thr Ile Thr Val Ser Ala Glu Leu Pro Lys
1 5 10 15

<210> 1887

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 1887

Thr Ile Thr Val Ser Ala Glu Leu Pro Lys Pro Ser Ile Ser Ser
1 5 10 15

<210> 1888

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1888

Ser Ala Glu Leu Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys
1 5 10 15

<210> 1889
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<220>
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<400> 1889
 Tyr Leu Trp Trp Val Asn Gly Gln Ser Leu Pro Val Ser Pro Arg
 1 5 10 15

<210> 1890
 <211> 15
 <212> PRT
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<220>
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<400> 1890
 Leu Trp Trp Val Asn Gly Gln Ser Leu Pro Val Ser Pro Arg Leu
 1 5 10 15

<210> 1891
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<220>
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<400> 1891
 Asn Arg Thr Leu Thr Leu Phe Asn Val Thr Arg Asn Asp Ala Arg
 1 5 10 15

<210> 1892
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1892
 Leu Phe Asn Val Thr Arg Asn Asp Ala Arg Ala Tyr Val Cys Gly
 1 5 10 15

<210> 1893
 <211> 15
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<220>
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<400> 1893

Val	Cys	Gly	Ile	Gln	Asn	Ser	Val	Ser	Ala	Asn	Arg	Ser	Asp	Pro
1				5					10				15	

<210> 1894

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1894

Gln	Asn	Ser	Val	Ser	Ala	Asn	Arg	Ser	Asp	Pro	Val	Thr	Leu	Asp
1				5					10				15	

<210> 1895

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1895

Ser	Asp	Pro	Val	Thr	Leu	Asp	Val	Leu	Tyr	Gly	Pro	Asp	Thr	Pro
1				5					10				15	

<210> 1896

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1896

Leu	Asp	Val	Leu	Tyr	Gly	Pro	Asp	Thr	Pro	Ile	Ile	Ser	Pro	Pro
1				5					10				15	

<210> 1897

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1897

Asp	Val	Leu	Tyr	Gly	Pro	Asp	Thr	Pro	Ile	Ile	Ser	Pro	Pro	Asp
1				5					10				15	

<210> 1898

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1898

Thr Pro Ile Ile Ser Pro Pro Asp Ser Ser Tyr Leu Ser Gly Ala
 1 5 10 15

<210> 1899

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1899

Ser Ser Tyr Leu Ser Gly Ala Asn Leu Asn Leu Ser Cys His Ser
 1 5 10 15

<210> 1900

<211> 15

<212> PRT

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Tyr Arg His Asp Gly Gly Asn Val Leu

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Ser Gly Pro Ser Asn Thr Tyr Pro Glu Ile

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Arg Gly Tyr Val Phe Gln Gly Leu

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Arg Gly Pro Tyr Arg Ala Phe Val Thr Ile

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Lys Phe Asn Pro Met Lys Thr Tyr Ile

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Val Val His Phe Phe Lys Asn Ile Val Thr Pro Arg Thr Pro Pro Tyr

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Tyr Ala His Ala Ala His Ala Ala His Ala Ala His Ala
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Leu Leu Thr Phe Trp Asn Pro Pro Thr
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Val Leu Tyr Gly Pro Asp Ala Pro Thr Val
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 Glu Val Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly
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Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn
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Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile
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Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln Asn Asp Thr Gly
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Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val
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Tyr Pro Glu Leu Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys
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Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys Pro Val Glu Asp Lys
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Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg
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Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg Leu
1 5 10 15

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Gln Tyr Ser Trp Phe Val Asn Gly Thr Phe Gln Gln Ser Thr Gln
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Asp Thr Gly Leu Asn Arg Thr Thr Val Thr Thr Ile Thr Val Tyr
1 5 10 15

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 Lys Pro Phe Ile Thr Ser Asn Asn Ser Asn Pro Val Glu Asp Glu
 1 5 10 15

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 Asn Arg Thr Leu Thr Leu Ser Val Thr Arg Asn Asp Val Gly
 1 5 10 15

<210> 2331
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<400> 2331
 Gln Glu Leu Phe Ile Ser Asn Ile Thr Glu Lys Asn Ser Gly Leu
 1 5 10 15

<210> 2332
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 Arg Thr Thr Val Lys Thr Ile Thr Val Ser Ala Glu Leu Pro Lys
 1 5 10 15

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<400> 2333

Ser	Ala	Glu	Leu	Pro	Lys	Pro	Ser	Ile	Ser	Ser	Asn	Asn	Ser	Lys
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<210> 2335

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<400> 2335

Thr	Gln	Val	Leu	Phe	Ile	Ala	Lys	Ile	Thr	Pro	Asn	Asn	Asn	Gly
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<400> 2336

Gln	Val	Leu	Phe	Ile	Ala	Lys	Ile	Thr	Pro	Asn	Asn	Asn	Gly	Thr
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<400> 2337

Tyr	Ala	Cys	Phe	Val	Ser	Asn	Leu	Ala	Thr	Gly	Arg	Asn	Asn	Ser
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<400> 2338

Asn	Asn	Ser	Ile	Val	Lys	Ser	Ile	Thr	Val	Ser	Ala	Ser	Gly	Thr
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<400> 2339

Asn	Ser	Ile	Val	Lys	Ser	Ile	Thr	Val	Ser	Ala	Ser	Gly	Thr	Ser
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Glu	Val	Leu	Leu	Val	His	Asn	Leu	Pro	Gln	His	Leu	Phe	Gly
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<400> 2342

Gly	Arg	Glu	Ile	Ile	Tyr	Pro	Asn	Ala	Ser	Leu	Leu	Ile	Gln	Asn
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 Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile
 1 5 10 15

<210> 2344
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<400> 2344
 Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val
 1 5 10 15

<210> 2345
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<400> 2345
 Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg
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<210> 2346
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<400> 2346
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 1 5 10 15

<210> 2347
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<400> 2347

Arg Thr Thr Val Lys Thr Ile Thr Val Ser Ala Glu Leu Pro Lys
 1 5 10 15

<210> 2348

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<400> 2348

Asn Asn Ser Ile Val Lys Ser Ile Thr Val Ser Ala Ser Gly Thr
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Asn Ser Ile Val Lys Ser Ile Thr Val Ser Ala Ser Gly Thr Ser
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<210> 2350

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Gln Asn Ile Ile Gln Asn Asp Thr Gly Phe Tyr Thr Leu His Val
 1 5 10 15

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<400> 2351

Leu His Val Ile Lys Ser Asp Leu Val Asn Glu Glu Ala Thr Gly
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<210> 2352

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Lys Ser Asp Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg Val
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<210> 2353

<211> 15

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<400> 2353

Ser Asp Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr
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Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr Pro Glu Leu Pro
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<210> 2355

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<212> PRT

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Gln Phe Arg Val Tyr Pro Glu Leu Pro Lys Pro Ser Ile Ser Ser
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<210> 2356

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Ala Val Ala Phe Thr Cys Glu Pro Glu Thr Gln Asp Ala Thr Tyr
 1 5 10 15

<210> 2357

<211> 15
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<400> 2357
 Thr Ala Ser Tyr Lys Cys Glu Thr Gln Asn Pro Val Ser Ala Arg
 1 5 10 15

<210> 2358
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<400> 2358
 Asn Val Leu Tyr Gly Pro Asp Ala Pro Thr Ile Ser Pro Leu Asn
 1 5 10 15

<210> 2359
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 1 5 10 15

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<220>
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 1 5 10 15

<210> 2361
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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 Thr Ile Thr Val Tyr Ala Glu Pro Pro Lys Pro Phe Ile Thr Ser

1 5 10 15

<210> 2362
 <211> 15
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<220>
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 Ser Asn Pro Val Glu Asp Glu Asp Ala Val Ala Leu Thr Cys Glu
 1 5 10 15

<210> 2363
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<400> 2363
 Ala Val Ala Leu Thr Cys Glu Pro Glu Ile Gln Asn Thr Thr Tyr
 1 5 10 15

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 Asn Gln Ser Leu Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Asp
 1 5 10 15

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 Arg Leu Gln Leu Ser Asn Asp Asn Arg Thr Leu Thr Leu Leu Ser
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Glu Cys Gly Ile Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro
1 5 10 15

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<400> 2367

Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro Val Ile Leu Asn
1 5 10 15

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Asn Val Leu Tyr Gly Pro Asp Asp Pro Thr Ile Ser Pro Ser Tyr
1 5 10 15

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<400> 2369

Gly Val Asn Leu Ser Leu Ser Cys His Ala Ala Ser Asn Pro Pro
1 5 10 15

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<211> 15

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Thr Ile Thr Val Ser Ala Glu Leu Pro Lys Pro Ser Ile Ser Ser
1 5 10 15

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<211> 15

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<220>
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<400> 2371
 Ala Val Ala Phe Thr Cys Glu Pro Glu Ala Gln Asn Thr Thr Tyr
 1 5 10 15

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<220>
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<400> 2372
 Ser Asp Pro Val Thr Leu Asp Val Leu Tyr Gly Pro Asp Thr Pro
 1 5 10 15

<210> 2373
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 Asp Val Leu Tyr Gly Pro Asp Thr Pro Ile Ile Ser Pro Pro Asp
 1 5 10 15

<210> 2374
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<400> 2374
 Gly Ala Asn Leu Asn Leu Ser Cys His Ser Ala Ser Asn Pro Ser
 1 5 10 15

<210> 2375
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 Arg Trp Cys Ile Pro Trp Gln Arg Leu Leu Leu Thr Ala Ser Leu
 1 5 10 15

<210> 2376
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<400> 2376
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<400> 2377
 Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn
 1 5 10 15

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Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg
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Arg Leu Gln Leu Ser Asn Asp Asn Arg Thr Leu Thr Leu Leu Ser
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<400> 2382

Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
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<400> 2383

Asp Ile Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe
 1 5 10 15
 Asn Val Val Asn Ser
 20

<210> 2384

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Gly Ala Val Asp Ser Ile Leu Gly Gly Val Ala Thr Tyr Gly Ala Ala
 1 5 10 15

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<221> MOD_RES

<222> 1, 13

<223> Xaa = D-alanine or L-alanine

<221> MOD_RES

<222> 3

<223> Xaa = cyclohexylalanine, Phe or Tyr

<400> 2385

Xaa Lys Xaa Val Trp Ala Asn Thr Leu Lys Ala Ala Xaa

1

5

10